

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A low-pressure mercury vapor discharge lamp comprising a discharge vessel,

the discharge vessel enclosing, in a gastight manner, a discharge space provided with a filling of mercury and a rare gas,

the discharge vessel comprising a luminescent layer and means for maintaining an electric discharge in the discharge space,

a portion of ~~the~~ an inner surface of the discharge vessel facing the discharge space being provided with a protective layer adjacent said luminescent layer, characterized in that

the protective layer comprises aluminum oxide or yttrium oxide and further comprises a borate and/or a phosphate of an alkaline earth metal and/or of scandium, yttrium, or a further rare earth metal,

an inner side of the protective layer facing the discharge space is provided with said luminescent layer, and  
an inner side of said luminescent layer facing the discharge space is provided with an additional protective layer.

2. (Original) A low-pressure mercury vapor discharge lamp as claimed in claim 1, characterized in that the alkaline earth metal is calcium, strontium, and/or barium.

3. (Original) A low-pressure mercury vapor discharge lamp as claimed in claim 1, characterized in that the further rare earth metal is lanthanum, cerium, and/or gadolinium.

4. (Previously Presented) A low-pressure mercury vapor discharge lamp as claimed in claim 1, characterized in that the aluminum oxide comprises particles with an effective particle size  $d_p$  not exceeding  $3\mu\text{m}$ .

5. (Previously Presented) A low-pressure mercury vapor discharge lamp as claimed in claim 1, characterized in that the

protective layer comprises an alkaline earth borate, and in that the thickness of the protective layer is in a range from 0.1 to 50  $\mu\text{m}$ .

6. (Original) A low-pressure mercury vapor discharge lamp as claimed in claim 5, characterized in that the protective layer comprises  $\text{SrB}_4\text{O}_7$ .

7. (Original) A low-pressure mercury vapor discharge lamp as claimed in claim 5, characterized in that the thickness of the protective layer is in a range from 1 to 20  $\mu\text{m}$ .

8. (Previously Presented) A low-pressure mercury vapor discharge lamp as claimed in claim 1, characterized in that the discharge vessel comprises at least one stem, said stem being provided with the protective layer.

9. (Previously Presented) A low-pressure mercury vapor discharge lamp as claimed in claim 1, characterized in that the discharge vessel is made from a glass comprising silicon dioxide

and sodium oxide, with the glass composition comprising the following essential constituents, given in percentages by weight:

60-80 %  $\text{SiO}_2$ ,

10-20 %  $\text{Na}_2\text{O}$ .

10.(Original) A low-pressure mercury vapor discharge lamp as claimed in claim 9, characterized in that the glass composition comprises the following constituents:

70-75 %  $\text{SiO}_2$ ,

15-18 %  $\text{Na}_2\text{O}$ ,

0.25-2 %  $\text{K}_2\text{O}$  by weight.

Claims 11-12 (Canceled)

13.(Original) A low-pressure mercury vapor discharge lamp as claimed in claim 11, characterized in that the luminescent material comprises a mixture of green-luminescing, terbium-activated cerium-magnesium aluminate, blue-luminescing barium-magnesium aluminate activated by bivalent europium, and red-luminescing yttrium oxide activated by trivalent europium.

14. (Previously Presented) A low-pressure mercury vapor discharge lamp as claimed in claim 1, characterized in that the aluminum oxide comprises particles with an effective particle size  $d_p$  in the range of  $0.1 \leq d_p \leq 0.8 \mu\text{m}$ .